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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)
	10/551,422	PATEL, ASHOK C.
Office Action Summary	Examiner	Art Unit
	JAIME M. HOLLIDAY	2617
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDON	ON. imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 10 2a) ☐ This action is FINAL . 2b) ☐ This action is application is in condition for allow closed in accordance with the practice under the condition of the condition is in condition.	nis action is non-final. vance except for formal matters, p	
Disposition of Claims		
4) ☐ Claim(s) 1-19 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-19 is/are rejected. 7) ☐ Claim(s) 19 is/are objected to. 8) ☐ Claim(s) are subject to restriction and Application Papers 9) ☐ The specification is objected to by the Exami	rawn from consideration.	
10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	ccepted or b) objected to by the ne drawing(s) be held in abeyance. So ection is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docume 2. ☐ Certified copies of the priority docume 3. ☐ Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a limit	ents have been received. ents have been received in Applica riority documents have been receive eau (PCT Rule 17.2(a)).	ition No ved in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date

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Response to Arguments

1. Applicant's arguments, see REMARKS, filed October 10, 2008, with respect to claims 1-20 have been fully considered and are persuasive. The U.S.C. 103 (a) rejection of claims 1-20, which was noted as being the incorrect set of claims, has been withdrawn.

Claim Objections

2. **Claim 19** is objected to because of the following informalities: On line 1, delete "includes" after "claim." Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims 1-9 and 12-19 are rejected under 35 U.S.C. 102(a) as being anticipated by Dent (US 6,393,284 B1).

Consider **claim 1**, Dent clearly show and disclose a method of connecting a mobile device to a network having associated channels (cellular radiotelephone is then tuned to a selected one of the candidate control channels; signal is

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received on the selected one of the candidate control channels; TDMA [col. 3] lines 33-36, lines 64-67, col. 4 lines 21-27]), the method comprising: scanning a selected subset of the associated channels (a scanning strategy to locate narrowband AMPS or D-AMPS channels using a dual-mode cellular radiotelephone; the receiver is tuned to the region of the spectrum containing AMPS control channels [fig. 5, col. 8 lines 8-15]) to create a list of potential channels carrying signals having power in excess of a predetermined threshold (a test is made as to whether any measured average signal strength (power) exceeds a predetermined threshold; if yes, the receiver is tuned to the first of the 30 kHz channel steps located within the region of the highest average signal strength identified [col. 8 lines 8-27]); analyzing each of the entries in the list of potential channels to identify channels carrying an encoded signal (the AMPS channel containing the largest signal strength is identified; receiver is tuned to that channel and an attempt is made to decode an analog control channel (encoded signal) [col. 8 lines 24-36]); and establishing a connection between the mobile device and the network associated with one of the identified channels carrying the encoded signal (signal is received on the selected one of the candidate control channels [fig. 5A, col. 4 lines 21-27, col. 8 lines 28-36]).

Consider claim 2, and as applied to claim 1 above, Dent further discloses wherein the encoded signal is a GSM encoded signal and the network associated with the GSM encoded signal is a GSM network (an attempt is made to locate a GSM control channel [abstract, col. 9 lines 33-34, col. 1 lines 47-52]).

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Consider claim 3, and as applied to claim 1 above, Dent further discloses initializing a timer after scanning the selected subset when the step of analyzing fails to identify channels carrying the encoded signal (if no region contains a signal over the predetermined threshold or no additional analog control channels can be found, then the wideband (GSM) mode is reselected; receiver is turned to a channel and an average signal strength measurement is made over a period of less than 6.6 ms; additional passes are made until three full passes have been made for a total time of 20 ms used [col. 8 lines 37-57]); and waiting until expiry of the timer before scanning a next selected subset (the greatest of the three signal strength measurements made on each channel, then the measurements are repeated using other channels (*next selected subset*) until the whole region of the D-AMPS spectrum has been scanned [fig. 5B, col. 8 lines 58-62]).

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Consider **claim 4**, and **as applied to claim 1 above**, Dent further discloses wherein a subsequently selected subset is distinct from a previously selected subset (the receiver is tuned to the region of the spectrum in which the AMPS digital control channels or D-AMPS traffic channels may be located [col. 8 lines 37-44]).

Consider claim 5, and as applied to claim 4 above, Dent further discloses wherein the subsequently selected subset is complementary to the previously selected subset (then the measurements are repeated using other

channels until the whole region of the D-AMPS spectrum has been scanned [fig. 5B, col. 8 lines 58-62]).

Consider claim 6, and as applied to claim 1 above, Dent further discloses assembling the complete list of channels carrying the encoded signal from all the associated channels prior to establishing the connection when the step of analysing identifies at least one channel carrying the encoded signal (the AMPS channel containing the largest signal strength is identified; the receiver is tuned to that channel; if no analog control channel is properly decoded, then a determination is made as to whether additional signal strengths above threshold are present; if yes, then using the AMPS receiver bandwidth for all regions identified in the wideband scan with signal strengths over the predetermined threshold, until an AMPS control channel is found [col. 8 lines 25-36]).

Consider **claim 7**, and **as applied to claim 6 above**, Dent further discloses wherein the step of assembling the complete list of channels carrying the encoded signal includes scanning all channels in a frequency band to identify encoded signals (receiver is tuned to the region of the spectrum containing AMPS control channels and the receiver is step-tuned in steps of, for example 150 kHz [col. 8 lines 8-15]).

Consider claim 8, and as applied to claim 6 above, Dent further discloses wherein the step of assembling the complete list of channels carrying the encoded signal includes scanning a next selected subset of the associated channels, complementary to the selected subset of the associated channels, to

identify the presence of the encoded signal (the AMPS channel containing the largest signal strength is identified; the receiver is tuned to that channel; if no analog control channel is properly decoded, then a determination is made as to whether additional signal strengths above threshold are present; if yes, then using the AMPS receiver bandwidth for all regions identified in the wideband scan with signal strengths over the predetermined [col. 8 lines 25-26]).

Consider claim 9, and as applied to claim 6 above, Dent further discloses wherein the step of establishing the connection includes registering the mobile device to the network (when a cellular radiotelephone is powered on, it performs an initialization procedure with the cellular radiotelephone system; the cellular radiotelephone scans a plurality of channels and/or time slots in order to locate an appropriate control channel [col. 1 lines 30-35]) with an associated encoded signal having the strongest power (the AMPS channel containing the largest signal strength is identified; the receiver is tuned to that channel and an attempt is made to decode an analog control channel [col. 8 lines 8-36]).

Consider **claim 12**, Dent clearly shows and discloses a mobile device for connecting to an accessible wireless network transmitting an encoded signal in at least one of a plurality of channels in a frequency band (cellular radiotelephone is then tuned to a selected one of the candidate control channels; signal is received on the selected one of the candidate control channels; TDMA [col. 3 lines 33-36, lines 64-67, col. 4 lines 21-27]), the mobile device having a transceiver ([fig. 1-fig. 4]), comprising: a channel subset selector for selecting a subset of the

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channels in the frequency band and for controlling the transceiver to scan the channels in the selected subset (a scanning strategy to locate narrowband AMPS or D-AMPS channels using a dual-mode cellular radiotelephone; the receiver is tuned to the region of the spectrum containing AMPS control channels [fig. 5, col. 8 lines 8-15]); an encoded signal detector for identifying channels scanned by the transceiver carrying an encoded signal having power in excess of a predetermined threshold(a test is made as to whether any measured average signal strength (power) exceeds a predetermined threshold; if yes, the receiver is tuned to the first of the 30 kHz channel steps located within the region of the highest average signal strength identified [col. 8 lines 8-27]); and a network device registrar for registering the mobile device on an accessible network associated with one of the identified channels carrying the encoded signal (the AMPS channel containing the largest signal strength is identified; receiver is tuned to that channel and an attempt is made to decode an analog control channel; when a cellular radiotelephone is powered on, it performs an initialization procedure with the cellular radiotelephone system; the cellular radiotelephone scans a plurality of channels and/or time slots in order to locate an appropriate control channel [col. 1 lines 30-35, col. 8 lines 24-36]).

Consider claim 13, and as applied to claim 12 above, Dent further discloses further including a timer for initiating a delay if the encoded signal detector does not detect the encoded signal in the subset of the channels (if no region contains a signal over the predetermined threshold or no additional analog

control channels can be found, then the wideband (GSM) mode is reselected; receiver is turned to a channel and an average signal strength measurement is made over a period of less than 6.6 ms; additional passes are made until three full passes have been made for a total time of 20 ms used [col. 8 lines 37-57]); and for instructing the channel subset selector to select a subsequent subset of the channels upon expiry of the delay (the greatest of the three signal strength measurements made on each channel, then the measurements are repeated using other channels until the whole region of the D-AMPS spectrum has been

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Consider **claim 14**, and **as applied to claim 12 above**, Dent further discloses wherein the accessible wireless network transmits a GSM encoded signal, and the encoded signal detector is a GSM signal detector (an attempt is made to locate a GSM control channel [abstract, col. 9 lines 33-34, col. 1 lines 47-52]).

scanned [fig. 5B, col. 8 lines 58-62]).

Consider **claim 15**, and **as applied to claim 12 above**, Dent further discloses wherein the encoded signal detector includes means for requesting a complementary subset of the channels when a channel carrying an encoded signal is identified (then the measurements are repeated using other channels until the whole region of the D-AMPS spectrum has been scanned [fig. 5B, col. 8 lines 58-62]).

Consider claim 16, and as applied to claim 12 above, Dent further discloses wherein the encoded signal detector includes means for requesting a

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complete subset of the channels when a channel carrying an encoded signal is identified (the AMPS channel containing the largest signal strength is identified; the receiver is tuned to that channel; if no analog control channel is properly decoded, then a determination is made as to whether additional signal strengths above threshold are present; if yes, then using the AMPS receiver bandwidth for all regions identified in the wideband scan with signal strengths over the predetermined threshold, until an AMPS control channel is found [col. 8 lines 25-36]).

Consider claim 17, and as applied to claim 13 above, Dent further discloses wherein the timer includes means for instructing the channel selector to select the subsequent subset of the channels upon expiry of the delay if the encoded signal detector did not identify a channel carrying the encoded signal (if no region contains a signal over the predetermined threshold or no additional analog control channels can be found, then the wideband (GSM) mode is reselected; receiver is turned to a channel and an average signal strength measurement is made over a period of less than 6.6 ms; additional passes are made until three full passes have been made for a total time of 20 ms used; the greatest of the three signal strength measurements made on each channel, then the measurements are repeated using other channels until the whole region of the D-AMPS spectrum has been scanned [fig. 5B, col. 8 lines 37-62]).

Consider claim 18, and as applied to claim 12 above, Dent further discloses wherein the network device registrar includes means for registering the

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mobile device on the accessible network associated with the identified channel carrying the highest power encoded signal (when a cellular radiotelephone is powered on, it performs an initialization procedure with the cellular radiotelephone system; the cellular radiotelephone scans a plurality of channels and/or time slots in order to locate an appropriate control channel; the AMPS channel containing the largest signal strength is identified; the receiver is tuned to that channel and an attempt is made to decode an analog control channel [col. 1 lines 30-35, col. 8 lines 8-36]).

Consider claim 19, and as applied to claim 12 above, Dent further discloses wherein the network device registrar includes means for registering the mobile device on the network associated with the identified channel carrying the highest power encoded signal (when a cellular radiotelephone is powered on, it performs an initialization procedure with the cellular radiotelephone system; the cellular radiotelephone scans a plurality of channels and/or time slots in order to locate an appropriate control channel; the AMPS channel containing the largest signal strength is identified; the receiver is tuned to that channel and an attempt is made to decode an analog control channel [col. 1 lines 30-35, col. 8 lines 8-36]).

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Claim Rejections - 35 USC § 103

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

6. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Dent** (US 6,393,284 B1) in view of **Zicker** (5,465,388).

Consider claim 10, and as applied to claim 6 above, Dent clearly shows and discloses the claimed invention except that the radiotelephone registers for emergency service.

In the same field of endeavor, Zicker clearly shows and discloses wherein the step of establishing the connection includes the step of registering the mobile device for emergency service to the network with an associated encoded signal having the strongest power (EPR, emergency portable cellular radiotelephone, achieves improved communication services because it does not prefer a system A channel when a stronger system B channel is available, or vice-versa; the best available signalling the best available signalling channel is selected for emergency communication services [abstract, col. 3 lines 35-45, col. 4 lines 24-36, col. 7 lines 7-12, lines 54-60]).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to choose a channel based on signal strength as taught by Zicker in the system of Dent, in order to establish a communication link.

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7. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Dent** (US 6,393,284 B1) in view of **Davey et al.** (US 5,258,981).

Consider claim 11, and as applied to claim 3 above, Dent clearly shows and discloses the claimed invention except that the sets of channels are odd and even.

In the same field of endeavor, Davey et al. clearly show and disclose wherein the selected subset of the associated channels corresponds to even numbered channels in a frequency band, and the next selected subset of the associated channels corresponds to odd numbered channels in the frequency band (secondary station when scanning non-adjacent carrier channels; scanning sequence will comprise the odd numbered carrier channels, a delay, and then the even numbered carrier channels [fig. 7, col. 7 line 57- col. 8 line 13]).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to scan a fraction of the available channels as taught by Davey et al. in the system of Dent, in order to accelerate scanning of cellular channels.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAIME M. HOLLIDAY whose telephone number is

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(571)272-8618. The examiner can normally be reached on Monday through Friday

7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on (571) 272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/Jaime M Holliday/ Examiner, Art Unit 2617

/Charles N. Appiah/

Supervisory Patent Examiner, Art Unit 2617